

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 11748 - L2 Version 2  
Chandra X-Ray Center

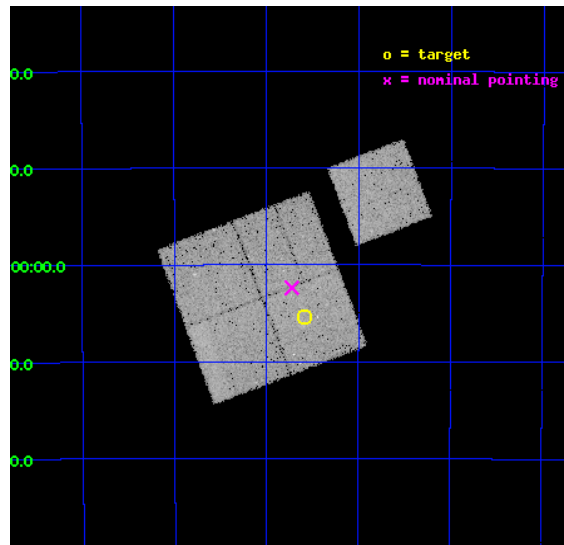
L2 Processing Date : Jun 15 2012

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# 1 Front

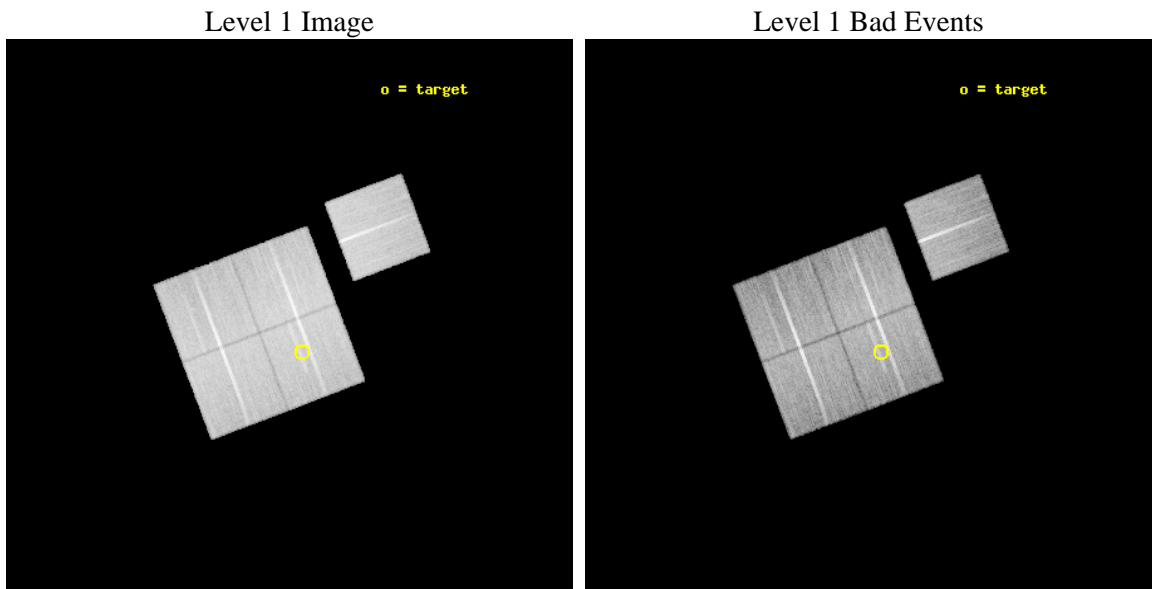
seq_num	800888	Sequence number
obs_id	11748	Observation id
title	Chandra Observations of a Complete Sample of SZE Selected Galaxy Clusters	Proposal title
observer	Dr Joseph Mohr	Principal investigator
object	SPT-CL 0534-5005	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	83.397917	Observer's specified target RA [deg]
dec_targ	-50.09	Observer's specified target Dec [deg]
ra_nom	83.430765763953	Nominal RA [deg]
dec_nom	-50.039834693022	Nominal Dec [deg]
roll_nom	69.233864287947	Nominal Roll [deg]
revision	2	Processing version of data
ontime	26123.543750048	Sum of GTIs [s]
livetime	25782.22041908	Livetime [s]
ontime0	26117.138669372	Sum of GTIs [s]
ontime1	26117.179689467	Sum of GTIs [s]
ontime2	26123.502710044	Sum of GTIs [s]
ontime3	26123.543750048	Sum of GTIs [s]
ontime6	26120.238619685	Sum of GTIs [s]
l2events	98388	Number of level 2 events



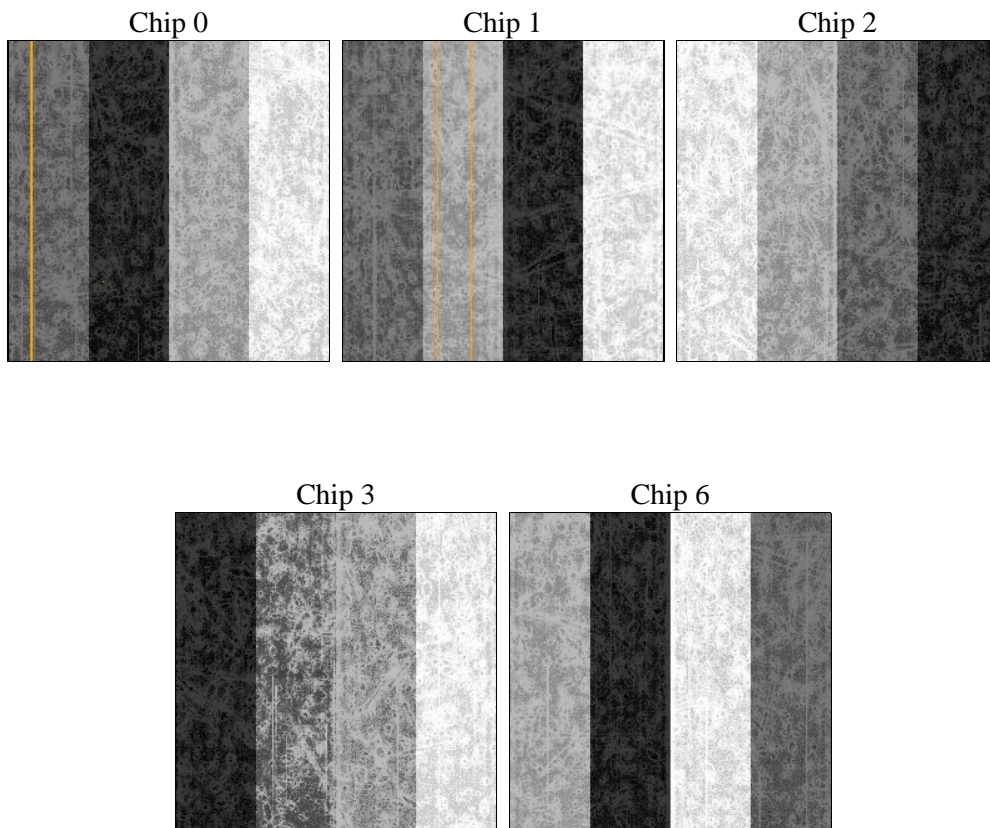
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	26350.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	26123.543750048	Sum of GTIs [s]
caldbver	4.4.10	&#160	ontime0	26117.138669372	Sum of GTIs [s]
date	2012-06-15T12:27:24	Date and time of file creation	ontime1	26117.179689467	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	26123.502710044	Sum of GTIs [s]
			ontime3	26123.543750048	Sum of GTIs [s]
			ontime6	26120.238619685	Sum of GTIs [s]
			l1events	1124639	Number of level 1 events

### 2.1.4 Events

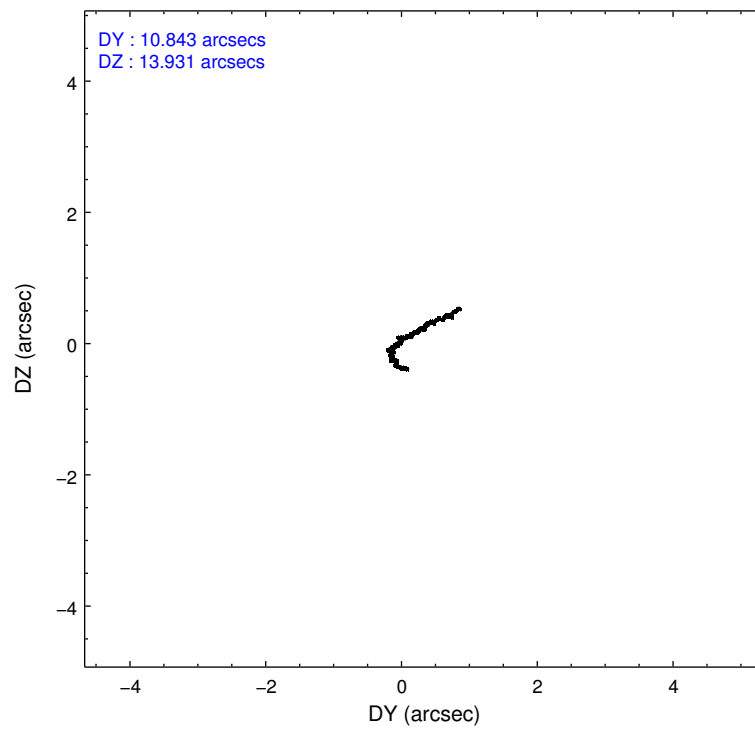
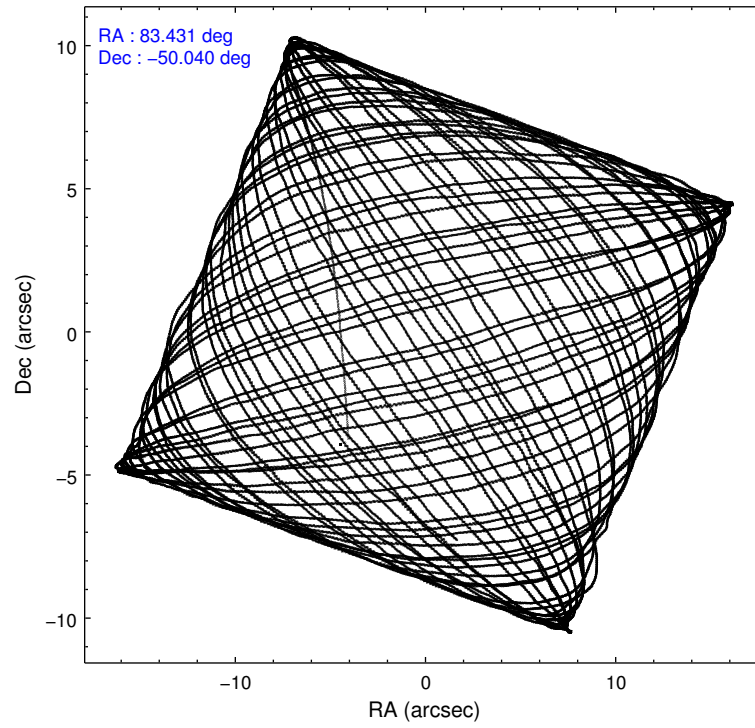
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	210881	219154	241271	226836	226497
rejected events	187223	193442	218127	204369	202862
rejected %	88%	88%	90%	90%	89%

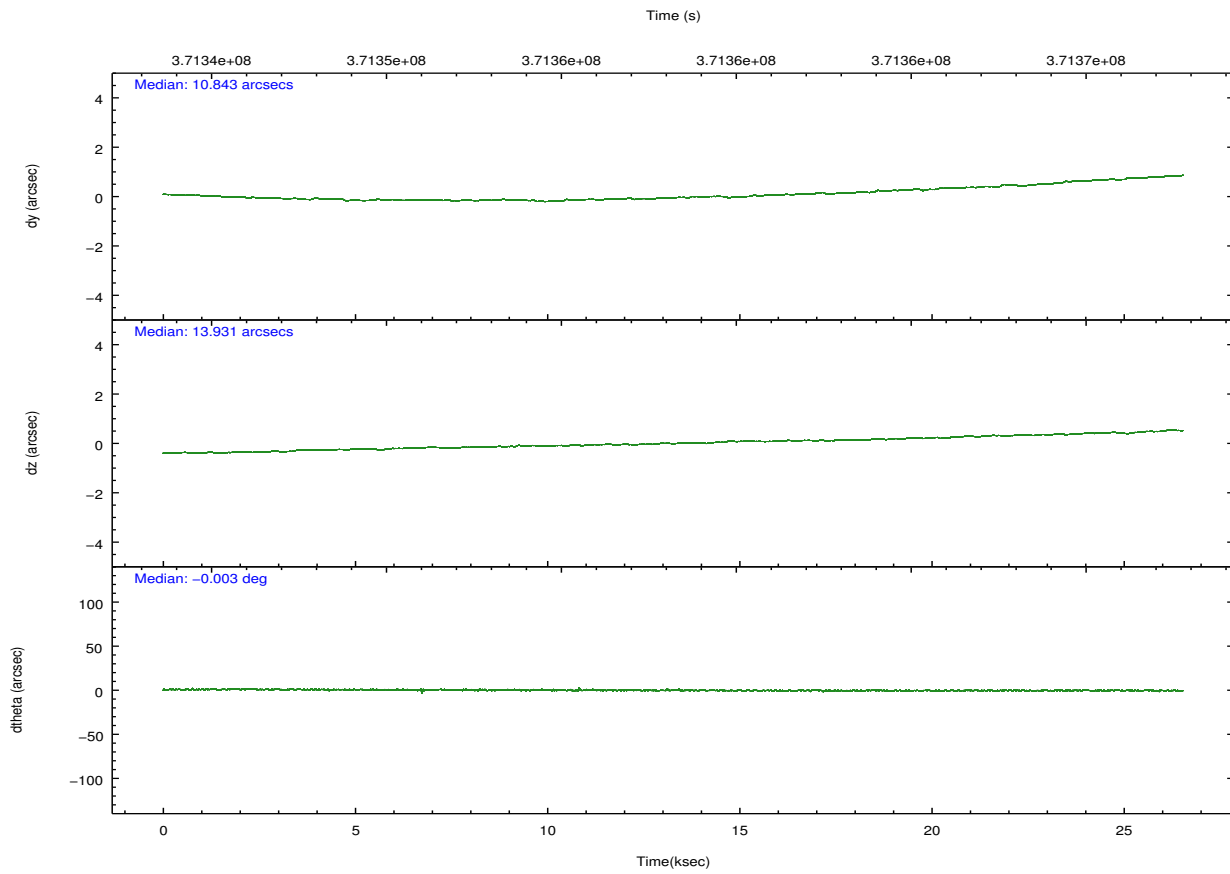
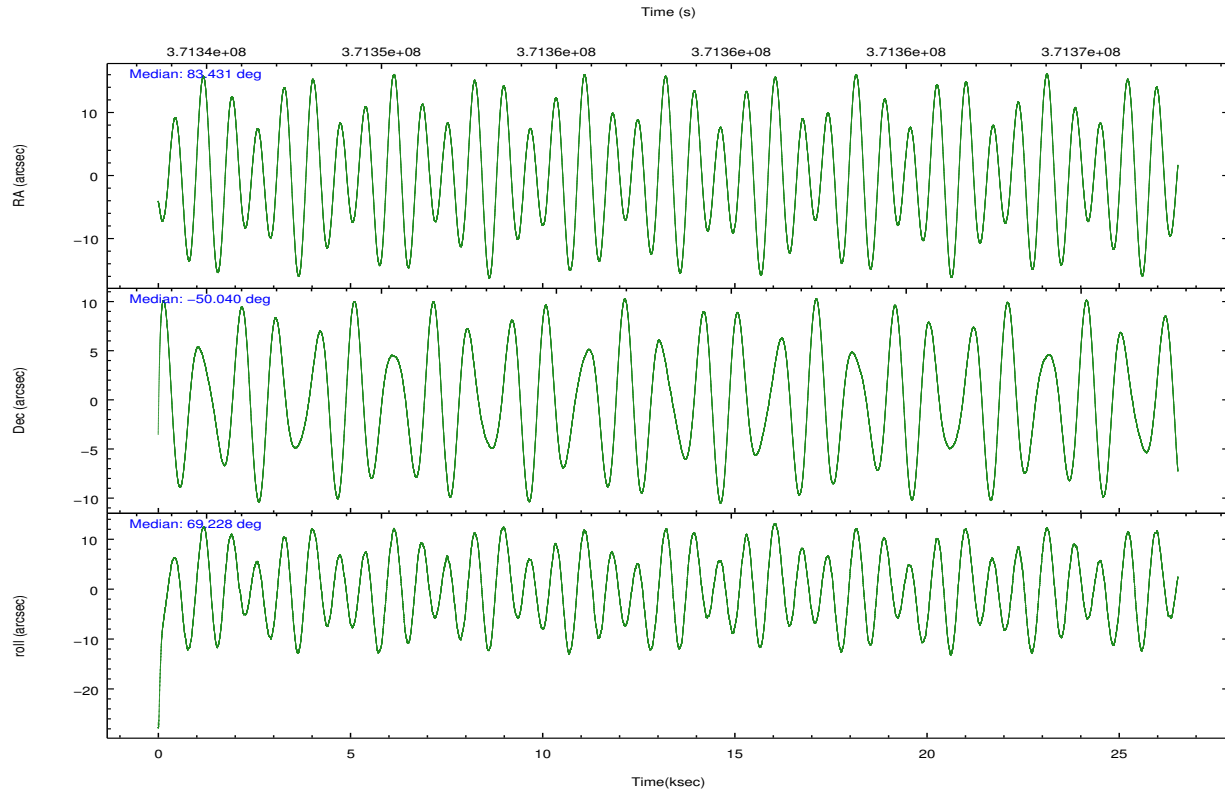
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	8270	9160	8220	8058	8155
	3%	4%	3%	3%	3%
grade 1 events	141	133	157	134	107
	0%	0%	0%	0%	0%
grade 2 events	5854	5922	5776	4960	5167
	2%	2%	2%	2%	2%
grade 3 events	2544	2654	2378	2382	2568
	1%	1%	0%	1%	1%
grade 4 events	2424	2672	2446	2397	2584
	1%	1%	1%	1%	1%
grade 5 events	8569	9226	8040	9797	9205
	4%	4%	3%	4%	4%
grade 6 events	4568	5305	4328	4676	5164
	2%	2%	1%	2%	2%
grade 7 events	178511	184082	209926	194432	193547
	84%	83%	87%	85%	85%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	83.437826	83.43076576395322	CCD I2 on	Y	Y
[deg] Pointing Dec	-50.066975	-50.03983469302175	CCD I3 on	Y	Y
[deg] Pointing Roll	69.030596	69.23386428794694	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O1	Y
[mm] SIM translation stage pos	-225.840463	-225.8433433320239	CCD S3 on	N	N
[mm] SIM translation stage offset	-7.752	-7.749109670905796	CCD S4 on	N	N
[s] Observation start time (MET)	371345106.184000	371344136.17871	CCD S5 on	N	N
Observation start date	2009-10-07T23:24:00	2009-10-07T23:08:56	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	371371456.184000	371372193.50512	On-chip summing requested	N	N
Observation end date	2009-10-08T06:43:10	2009-10-08T06:56:33	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect



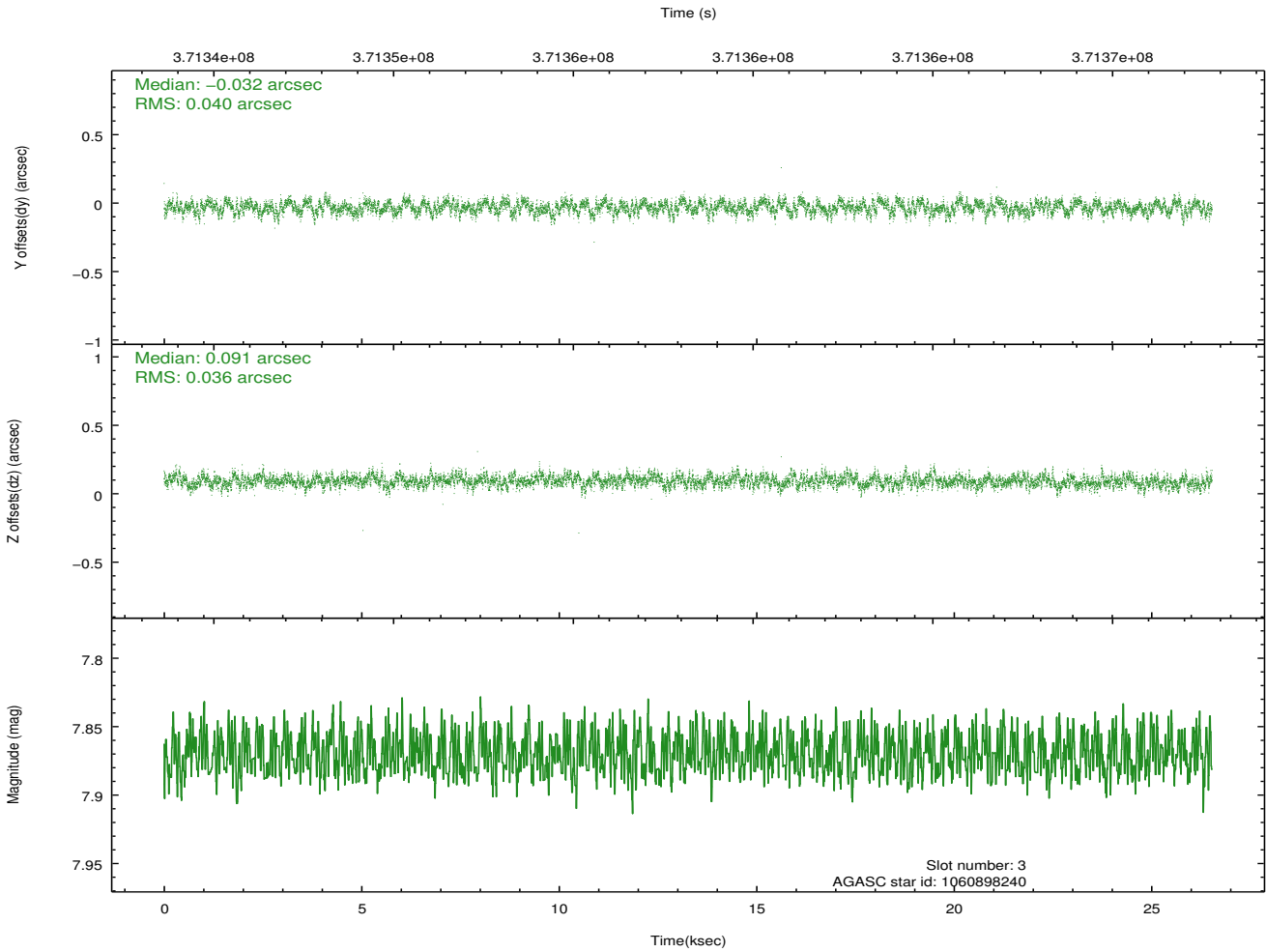
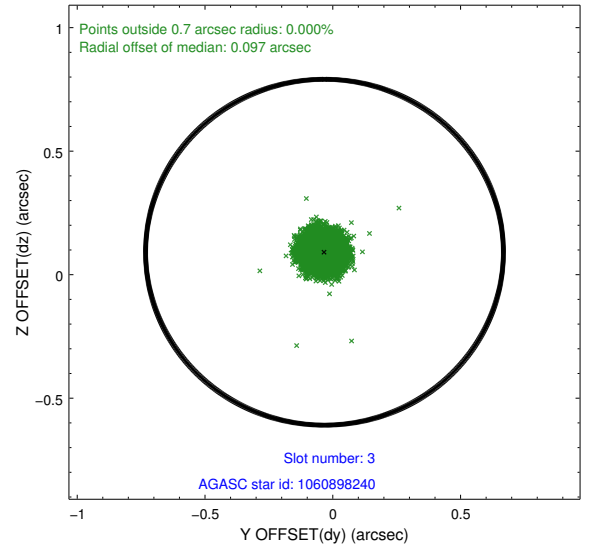
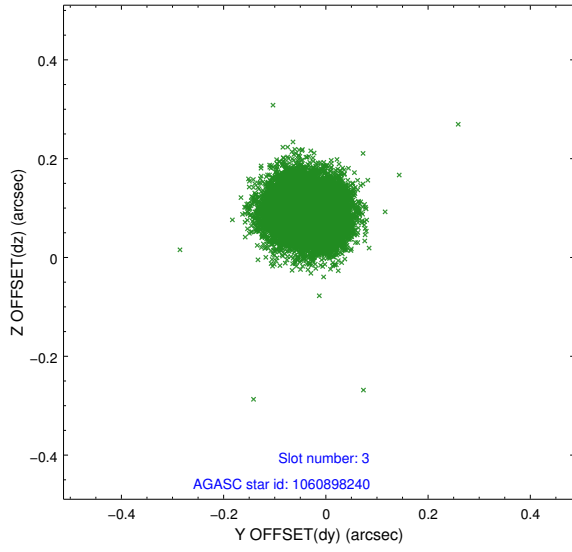


### Slot Statistics

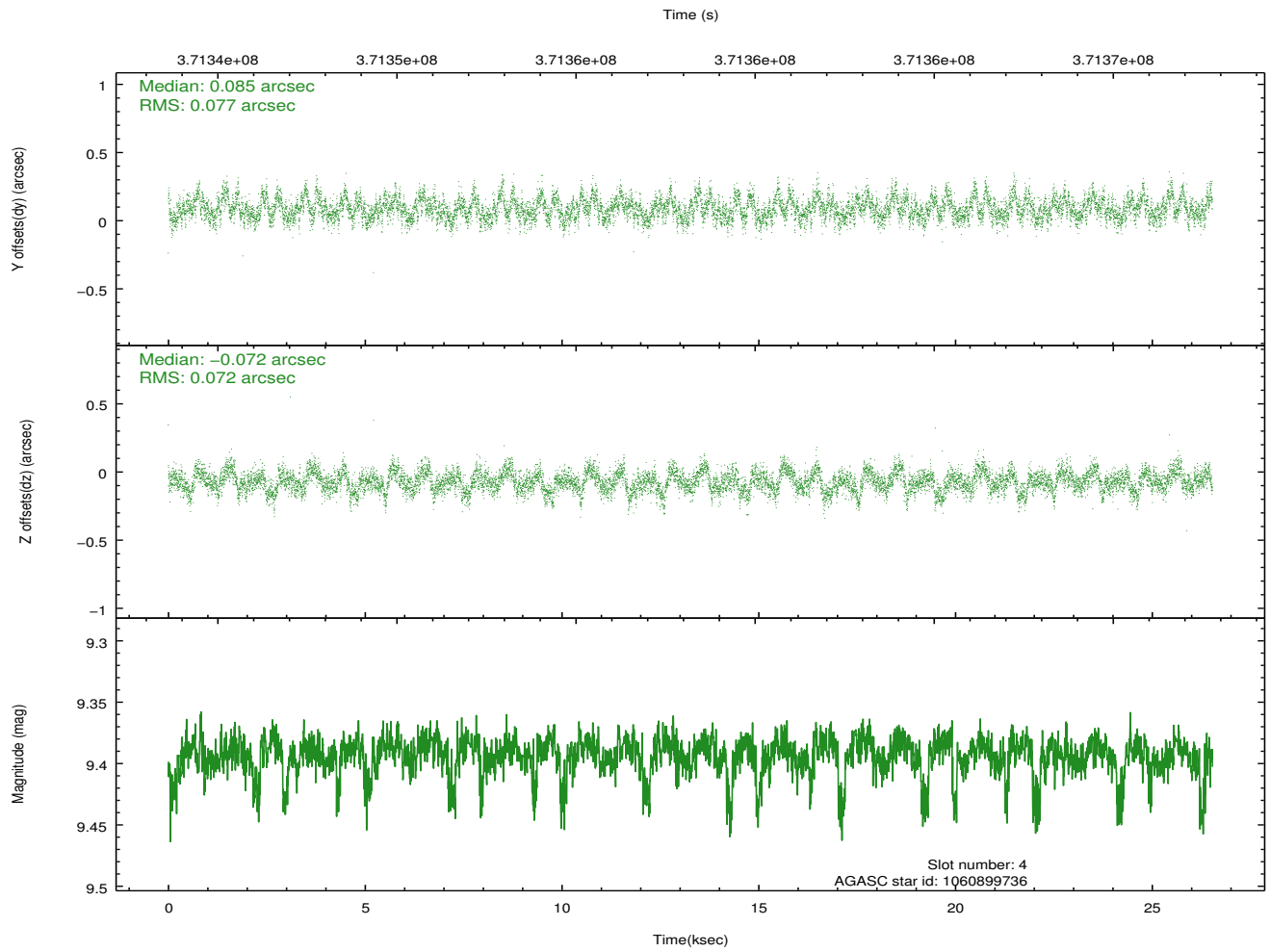
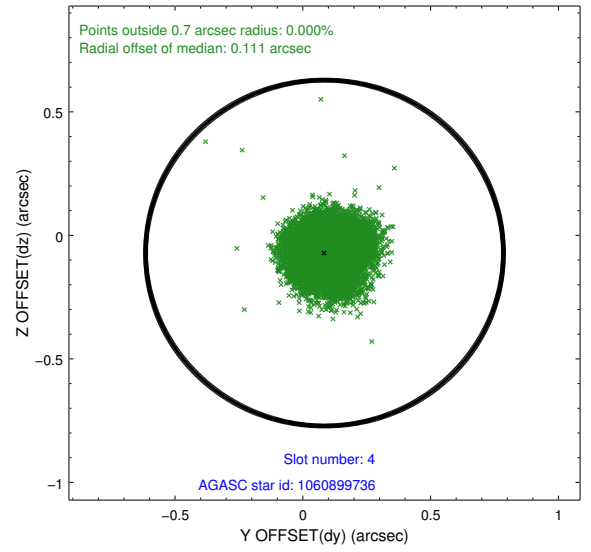
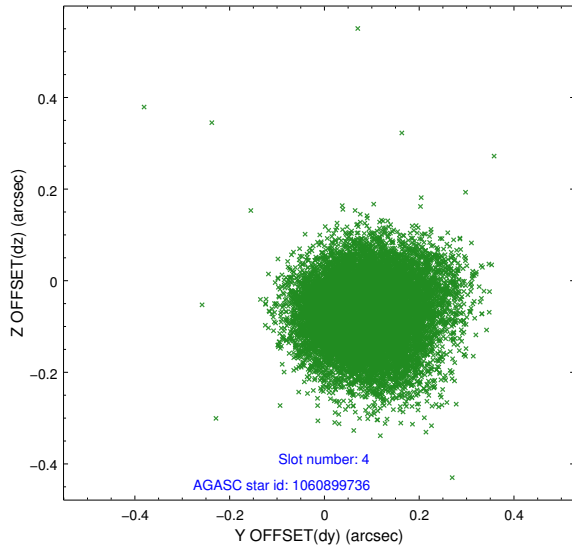
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.04	6470	0.098	-0.077	0.009	0.017	0.000000	0.000000	928.59	-996.66
1	FID	ACIS-I-5	7.03	6472	-0.243	0.086	0.009	0.015	0.000000	0.000000	-1819.84	900.86
2	FID	ACIS-I-6	7.06	6472	0.052	0.061	0.010	0.021	0.000000	0.000000	393.92	1545.51
3	GUIDE	1060898240	7.87	12941	-0.032	0.091	0.058	0.091	84.284698	-50.408719	-463.41	-2258.22
4	GUIDE	1060899736	9.39	12924	0.085	-0.072	0.113	0.178	82.882261	-49.324117	2026.14	2172.73
5	GUIDE	1060903184	9.06	12932	-0.019	0.124	0.084	0.135	84.153090	-49.579220	2230.46	-932.92
6	GUIDE	1060906824	7.05	12942	-0.111	-0.154	0.053	0.088	82.626321	-50.099887	-790.63	1703.50
7	GUIDE	1060906856	8.91	12928	0.076	0.009	0.074	0.121	82.563664	-50.533678	-2295.12	1262.24

## 2.4 Star Slots

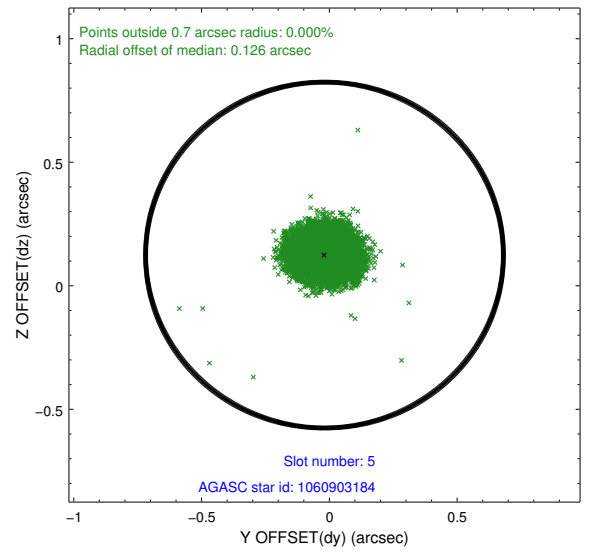
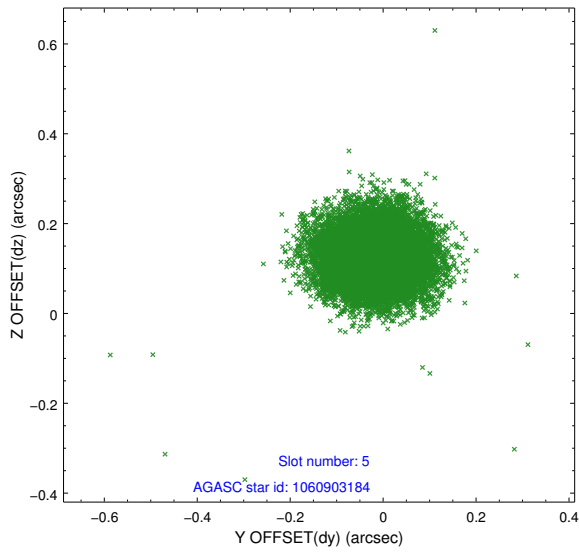
### 2.4.1 Slot 3



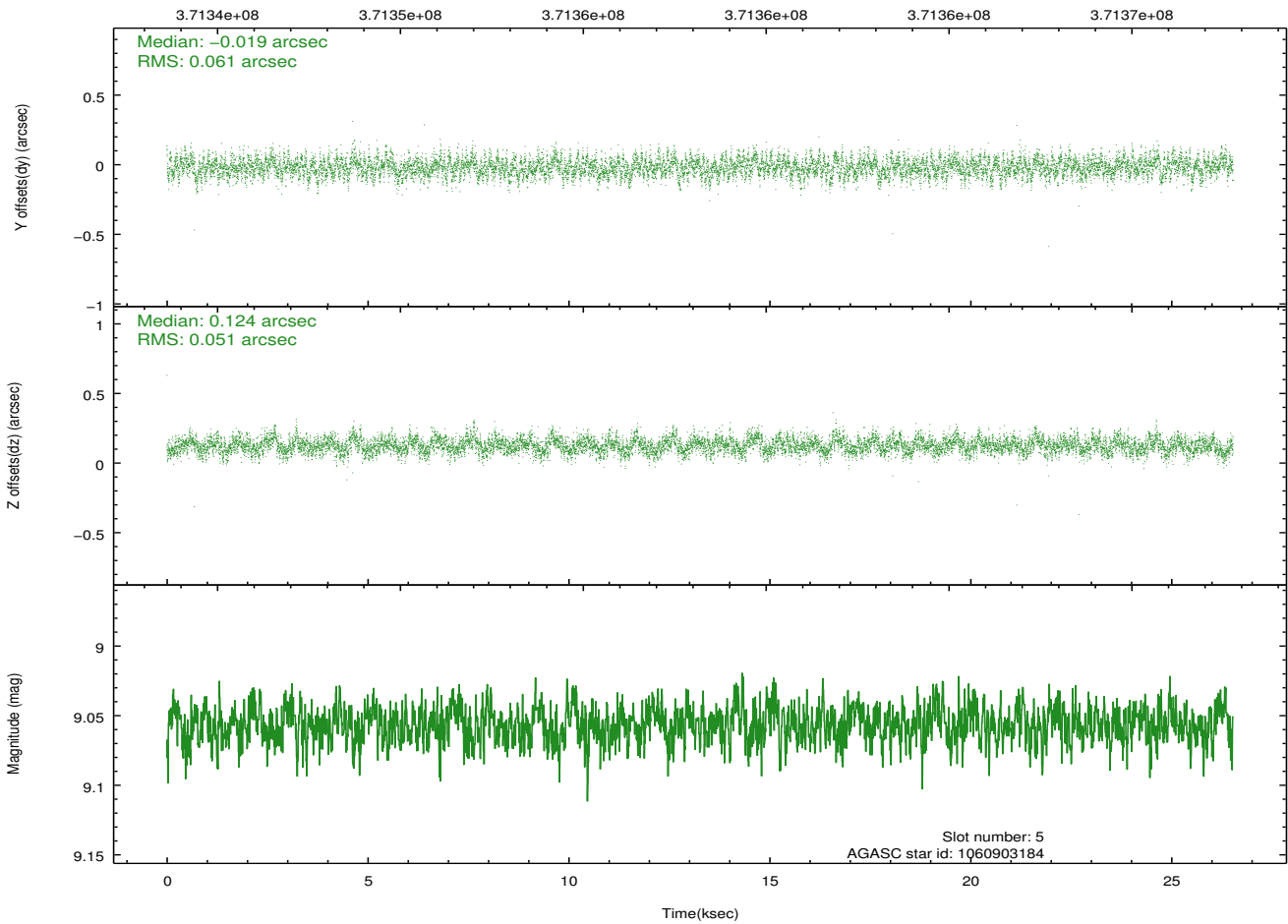
## 2.4.2 Slot 4



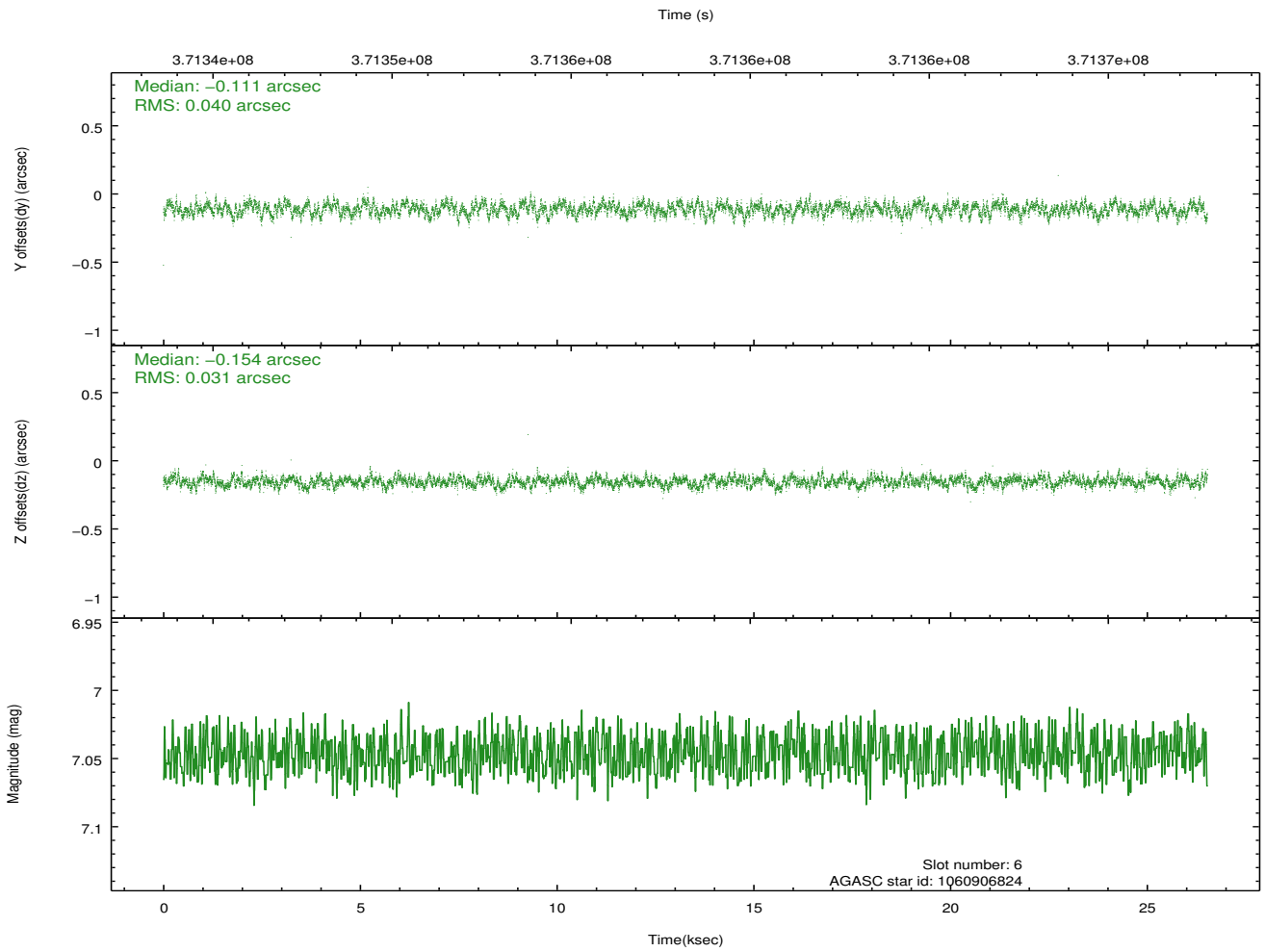
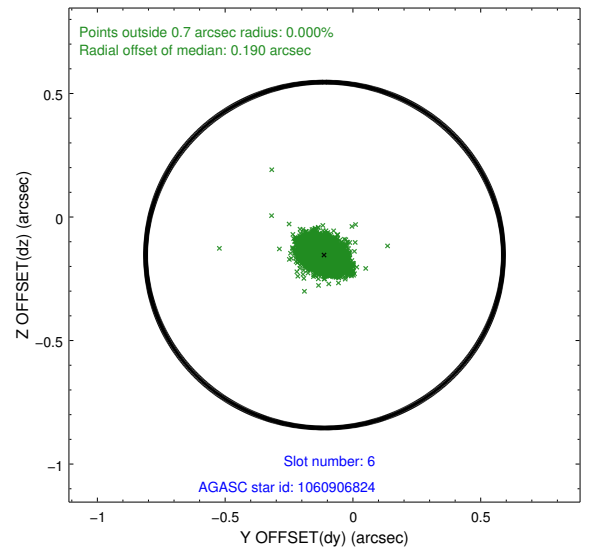
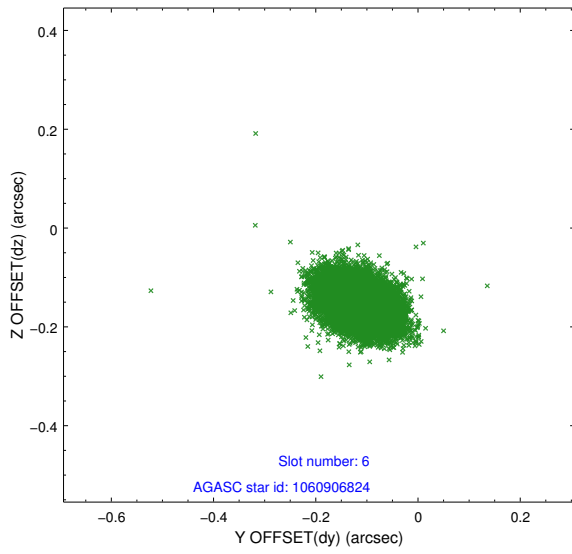
### 2.4.3 Slot 5



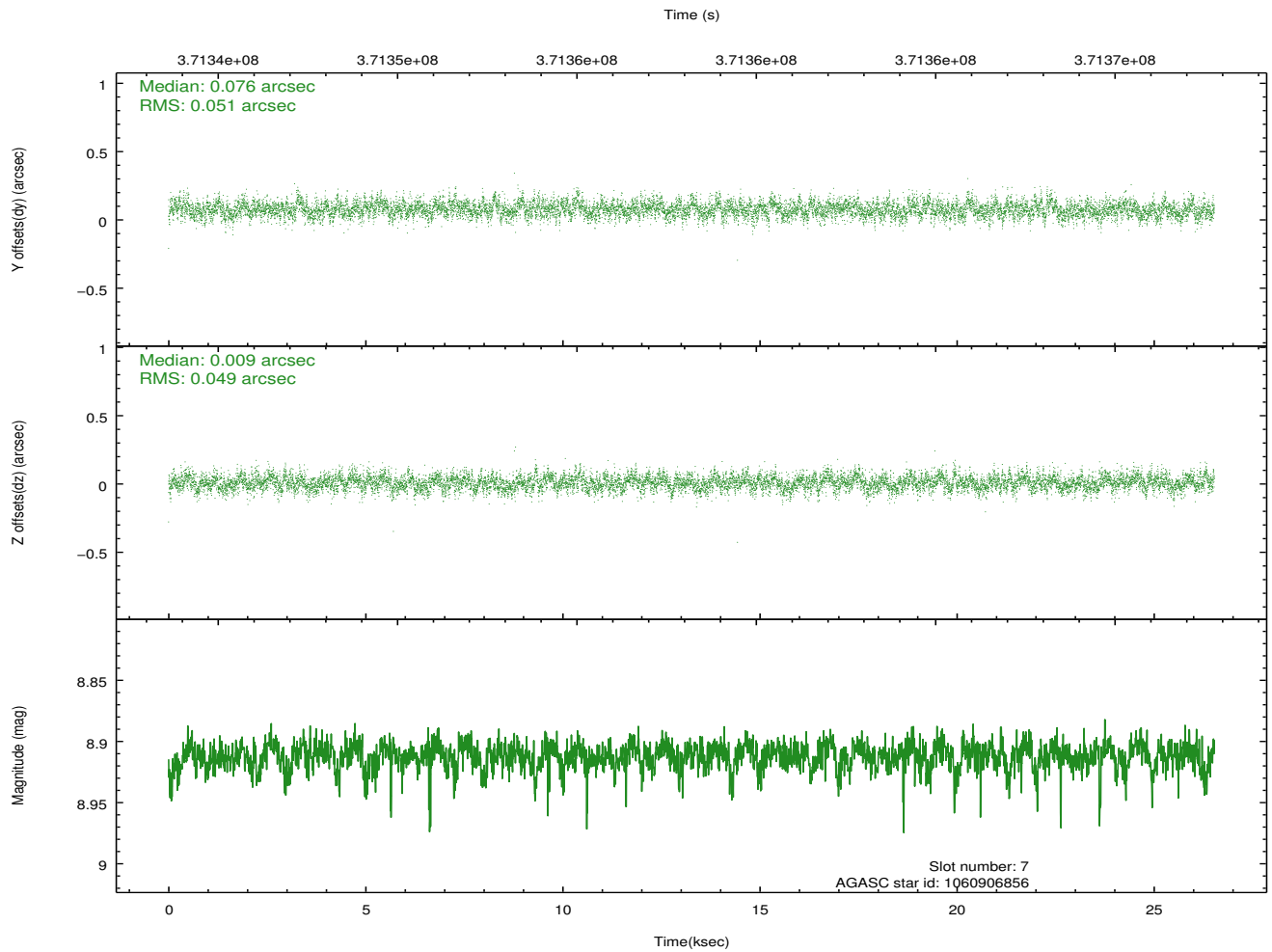
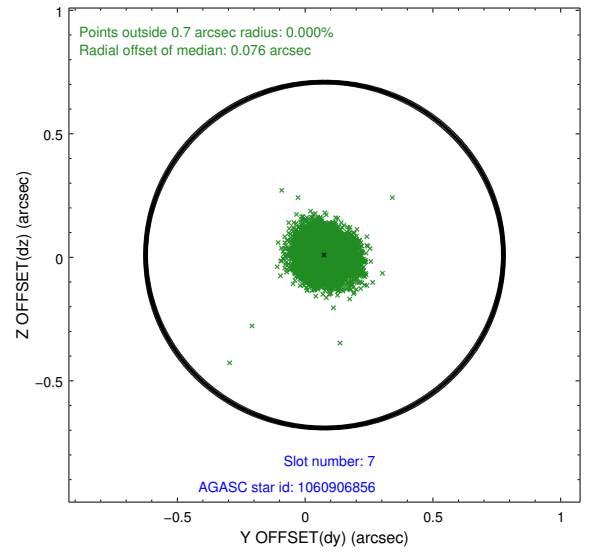
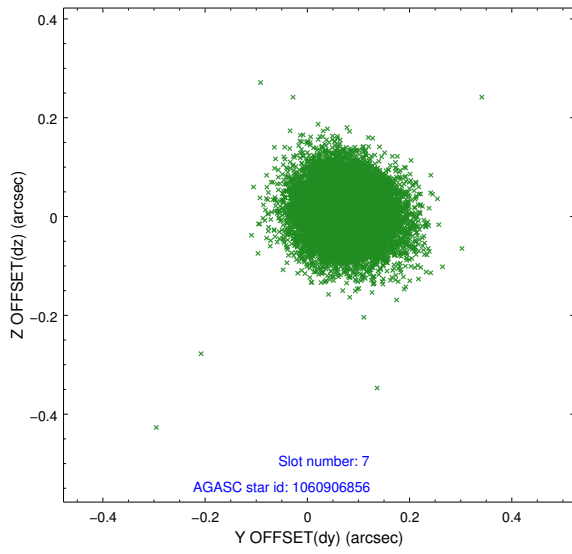
Time (s)



### 2.4.4 Slot 6

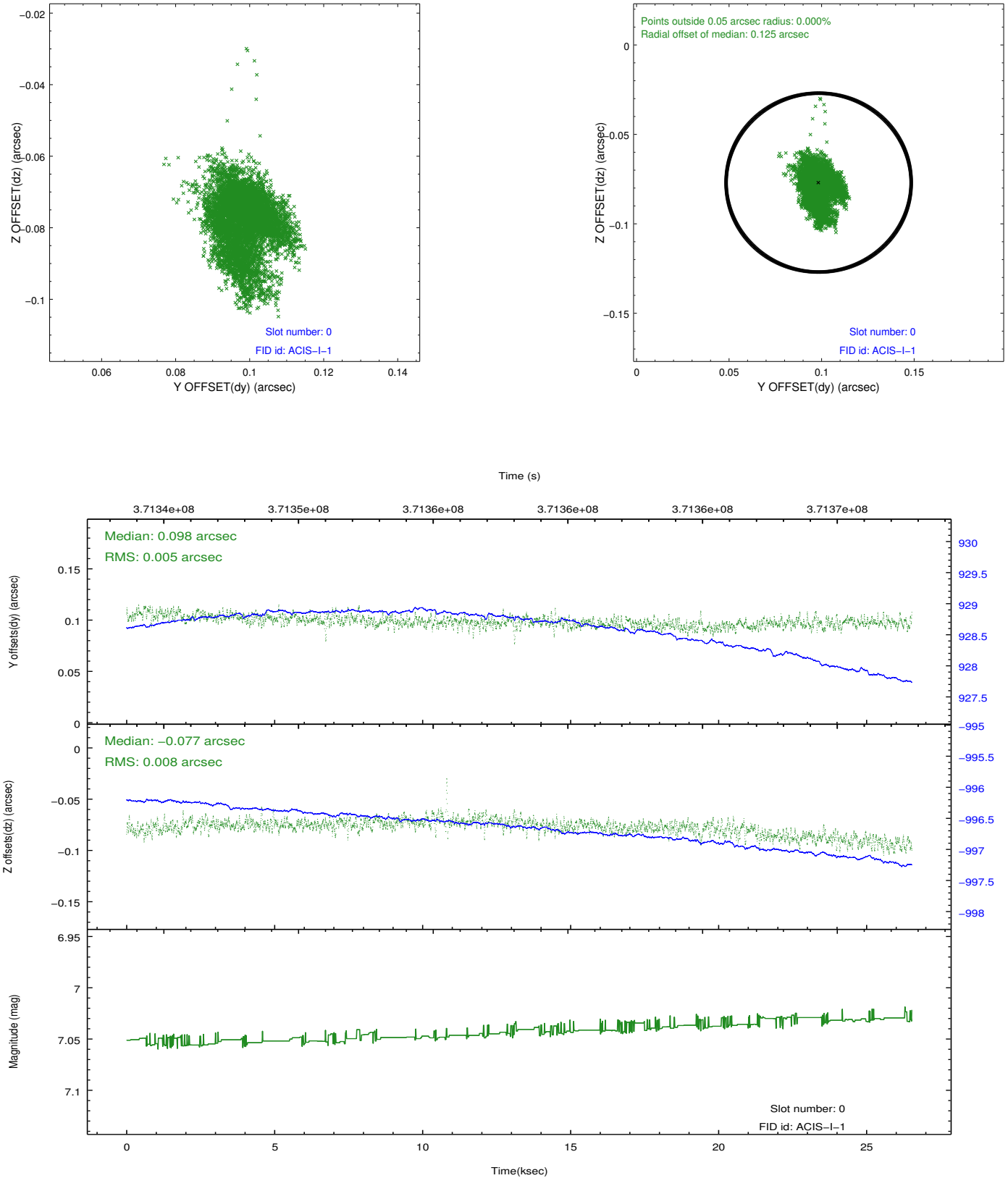


### 2.4.5 Slot 7

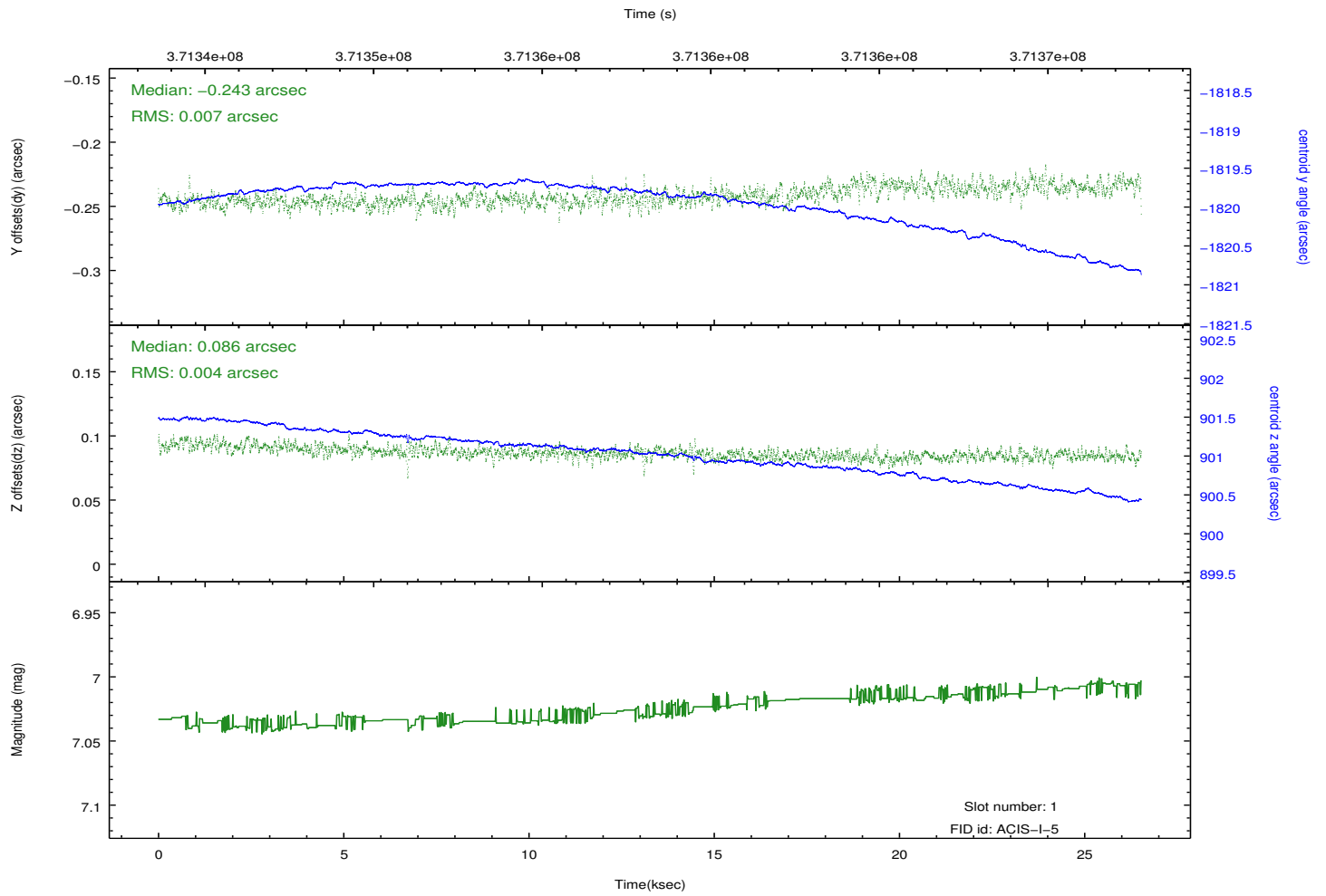
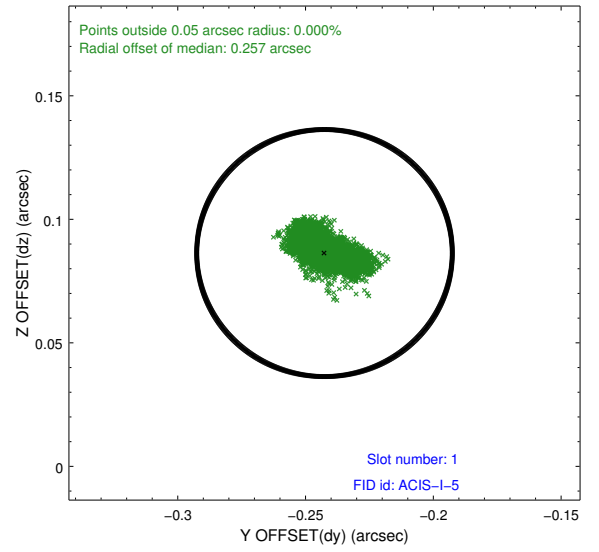
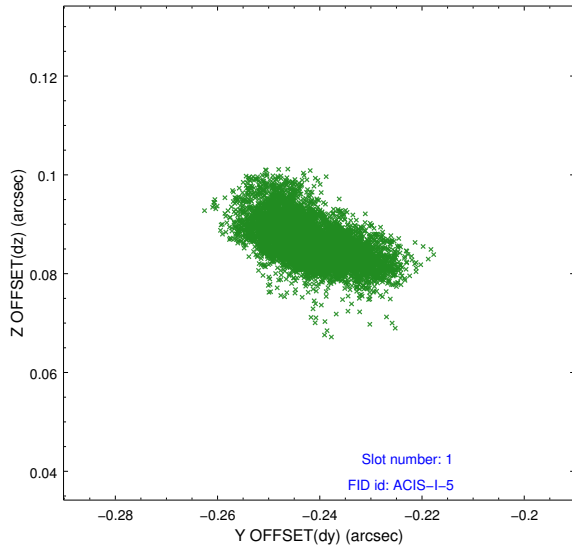


## 2.5 FID Slots

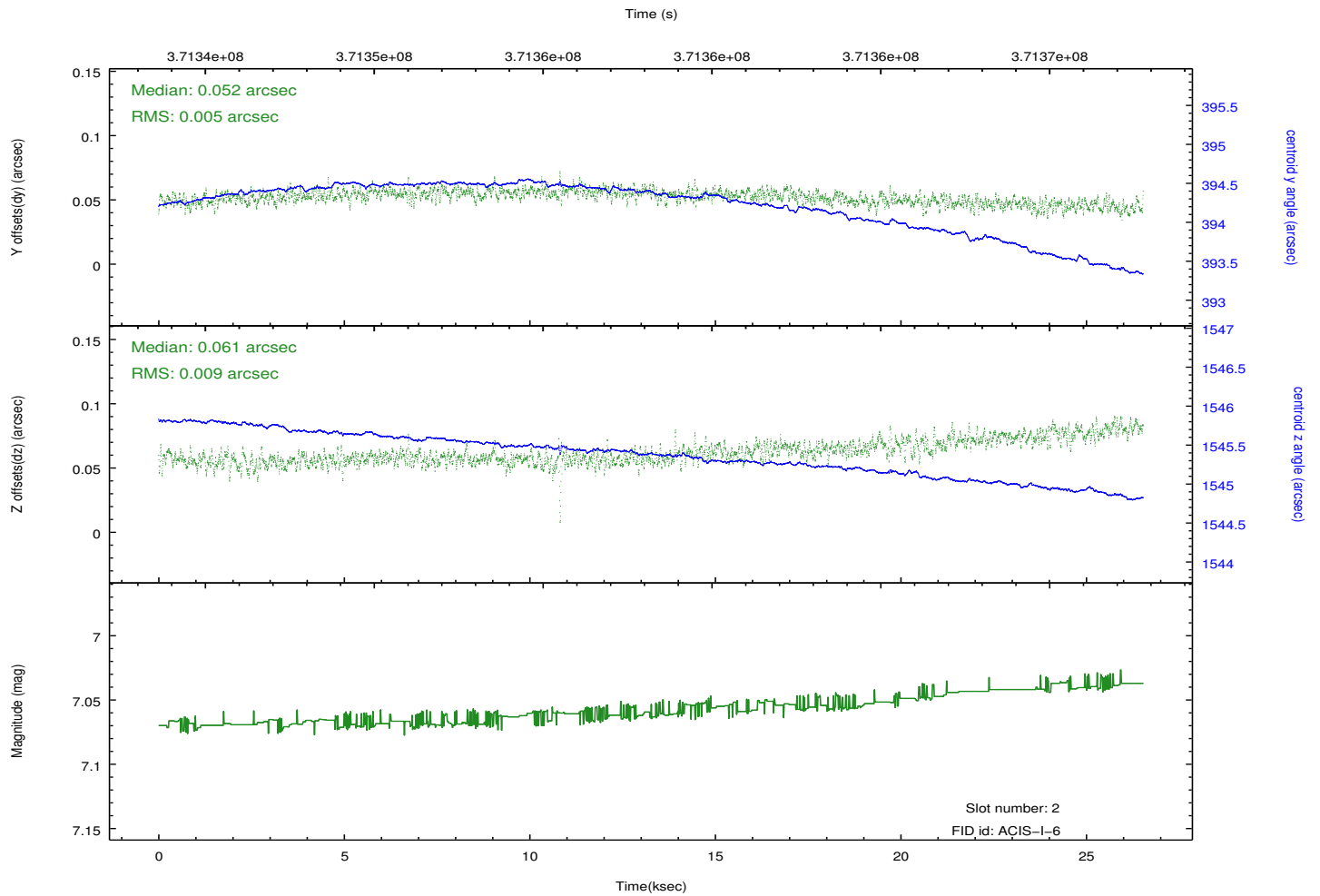
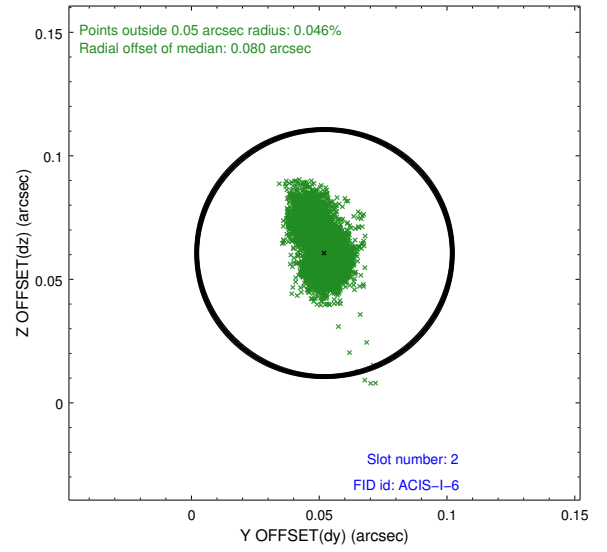
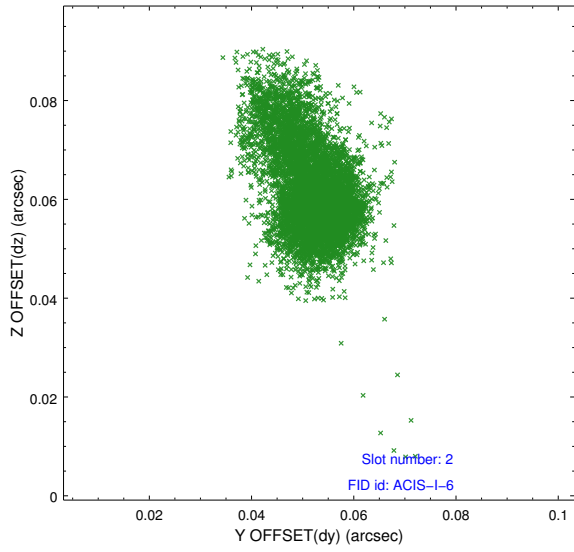
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.06.19
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	26.123543748736

## A.2 Comments